



# SEQUENCE LISTING

<110> ROY, ARUN K.  
LAVROVSKY, YAN  
TYAGI, RAKESH K.  
SONG, CHUNG S.  
CHATTERJEE, BANDANA  
CHEN, SHUO

<120> ESTROGEN RECEPTOR SITE-SPECIFIC RIBOZYMES AND USES  
THEREOF FOR ESTROGEN DEPENDENT TUMORS

<130> UTSK:379US

<140> 10.009,420

<141> 2001-12-04

<160> 14

<170> PatentIn Ver. 2.1

<210> 1

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Oligonucleotide

<400> 1

gcctggtgtg ctccgatgaa gc

22

<210> 2

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Oligonucleotide

<400> 2

cctgcagtgg cttgctgaat cc

22

<210> 3

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Oligonucleotide

<400> 3

&lt;210&gt; 4

&lt;211&gt; 1380

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 4

```

ggagcccctg aaccgtccgc agctcaagat ccccctggag cggcccctgg gcgaggtgta 60
cctggacagc agcaagcccc cegtgtacaa ctaccccagag ggcgccgcct acgagttcaa 120
cgccgcggcc gccgccaacg cgcaggtcta cggtcagacc ggccctcccct acggcccccg 180
gtctgaggct gcggcggttcg gctccaacgg cctgggggggt ttccccccac tcaacagcgt 240
gtctccgagc ccgctgatgc tactgcaccc gccgcgcgag ctgtcgcctt tcctgcagcc 300
ccacggccag caggtgccct actacctgga gaacgagccc agcggctaca cggtgcgaga 360
ggccggcccc cggcattct acaggccaaa ttcagataat cgacgccagg gtggcagaga 420
aagattggcc agtaccaatg acaagggaag tatggctatg gaatctgcca aggagactcg 480
ctactgtgca gtgtgcaatg actatgcttc aggctaccat tatggagtct ggtcctgtga 540
gggctgcaag gccttcttca agagaagtat tcaaggacat aacgactata tgtgtccagc 600
caccaaccag tgcaccattg ataaaaacag gaggaagagc tgccaggcct gccggctccg 660
caaatgctac gaagtgggaa tgatgaaagg tgggatacga aaagaccgaa gaggagggag 720
aatgttgaac cacaagcgcc agagagatga tggggagggc aggggtgaag tggggtctgc 780
tgagacatg agagctgcca acctttggcc aagcccgcct atgatcaaac gctctaagaa 840
gaacagcctg gccttgtccc tgacggccga ccagatggtc agtgccttgt tggatgctga 900
gccccccata ctctattccg agtatgatcc taccagacct ttcagtgaag cttcgatgat 960
gggcttactg accaacctgg cagacaggga gctgggtcac atgatcaact gggcgaagag 1020
ggtgccaggc tttgtggatt tgacctcca tgatcaggtc caccttctag aatgtgcctg 1080
gctagatgct ctgatgattg gtctcgtctg gcgctccatg gagcaccag tgaagctact 1140
gtttgtcctt aacttgctct tggacaggaa ccagggaaaa tgtgtagagg gcatgggtgga 1200
gatcttcgac atgctgctgg ctacatcatc tcggttccgc atgatgaatc tgcagggaga 1260
ggagtttgtg tgctcaaat ctattatctt gcttaattct ggagtgtaca catttctgtc 1320
cagcacctg aagtctctgg aagagaagga ccatatccac cgagtcctgg acaagatcac 1380

```

&lt;210&gt; 5

&lt;211&gt; 2092

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

```

gaattccaaa attgtgatgt ttcttgtatt tttgatgaag gagaaatact gtaatgatca 60
ctgtttacac tatgtacact ttaggccagc cttttgtagc gttatacaaa ctgaaagcac 120
accggacccg caggetcccg gggcagggcc ggggccagag ctcgcggtgc ggcgggacat 180
gcgctgcgtc gcctctaacc tcgggctgtg ctctttttcc aggtggcccc cggttttctg 240
agccttctgc cctgcgggga cacggtctgc accctgcccg cggccacgga ccatgacct 300
gaccctccac accaaagcat ctgggatggc cctactgcat cagatccaag ggaacgagct 360
ggagcccctg aaccgtccgc agctcaagat ccccctggag cggcccctgg gcgaggtgta 420
cctggacagc agcaagcccc cegtgtacaa ctaccccagag ggcgccgcct acgagttcaa 480
cgccgcggcc gccgccaacg cgcaggtcta cggtcagacc ggccctcccct acggcccccg 540
gtctgaggct gcggcggttcg gctccaacgg cctgggggggt ttccccccac tcaacagcgt 600
gtctccgagc ccgctgatgc tactgcaccc gccgcgcgag ctgtcgcctt tcctgcagcc 660
ccacggccag caggtgccct actacctgga gaacgagccc agcggctaca cggtgcgaga 720
ggccggcccc cggcattct acaggccaaa ttcagataat cgacgccagg gtggcagaga 780
aagattggcc agtaccaatg acaagggaag tatggctatg gaatctgcca aggagactcg 840
ctactgtgca gtgtgcaatg actatgcttc aggctaccat tatggagtct ggtcctgtga 900
gggctgcaag gccttcttca agagaagtat tcaaggacat aacgactata tgtgtccagc 960
caccaaccag tgcaccattg ataaaaacag gaggaagagc tgccaggcct gccggctccg 1020

```

```

caaatgctac gaagtgggaa tgatgaaagg tgggatacga aaagaccgaa gaggagggag 1080
aatgttgaaa cacaagcgcc agagagatga tggggagggc aggggtgaag tgggggtctgc 1140
tggagacatg agagctgcc aaccttggcc aagcccgtc atgatcaaac gctctaagaa 1200
gaacagcctg gccttgtccc tgacggccga ccagatggtc agtgccttgt tggatgctga 1260
gccccccata ctctattccg agtatgatcc taccagaccc ttcagtgaag cttcgatgat 1320
gggcttactg accaacctgg cagacaggga gctggttcac atgatcaact gggcgaagag 1380
ggtgccaggc tttgtggatt tgaccctcca tgatcaggtc caccttctag aatgtgcctg 1440
gctagagatc ctgatgattg gtctcgtctg gcgctccatg gagcaccag tgaagctact 1500
gtttgtctct aacttgctct tggacaggaa ccagggaaaa tgtgtagagg gcatggtgga 1560
gatcttcgac atgctgctgg ctacatcatc tcggttccgc atgatgaatc tgcagggaga 1620
ggagtttgtg tgcctcaaat ctattatttt gcttaattct ggagtgtaca catttctgtc 1680
cagcaccctg aagtctctgg aagagaagga ccatatccac cgagtcctgg acaagatcac 1740
agacactttg atccacctga tggccaaggc aggcctgacc ctgcagcagc agcaccagcg 1800
gctggcccag ctctctctca tcctctccca catcaggcac atgagtaaca aaggcatgga 1860
gcatctgtac agcatgaagt gcaagaacgt ggtgcccctc tatgacctgc tgctggagat 1920
gctggacgcc caccgcctac atgcgcccac tagccgtgga ggggcatccg tggaggagac 1980
ggaccaaagc cacttggcca ctgcgggctc tacttcatcg cattccttgc aaaagtatta 2040
catcacgggg gaggcagagg gtttcctctg cacagtctga gagctccctg gc 2092

```

```

<210> 6
<211> 20
<212> RNA
<213> Artificial Sequence

```

```

<220>
<223> Description of Artificial Sequence: Synthetic
      Oligonucleotide

```

```

<400> 6
uauauguguc cagccaccaa 20

```

```

<210> 7
<211> 41
<212> RNA
<213> Artificial Sequence

```

```

<220>
<223> Description of Artificial Sequence: Synthetic
      Oligonucleotide

```

```

<400> 7
uugguggcug cugaugaguc cgugaggacg aaacacauau a 41

```

```

<210> 8
<211> 10
<212> RNA
<213> Artificial Sequence

```

```

<220>
<223> Description of Artificial Sequence: Synthetic
      Oligonucleotide

```

```

<400> 8
uauauguguc 10

```

<210> 9  
<211> 10  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Oligonucleotide

<400> 9  
cagccaccaa

10

<210> 10  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Oligonucleotide

<400> 10  
uuauggaguc ugguccugug a

21

<210> 11  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Oligonucleotide

<400> 11  
ucacaggacc acugaugagu ccgugaggac gaaacuccau aa

42

<210> 12  
<211> 10  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Oligonucleotide

<400> 12  
uuauggaguc

10

<210> 13  
<211> 11  
<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Oligonucleotide

<400> 13

ugguccugug a

11

<210> 14

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Oligonucleotide

<400> 14

ucacaggacc acuaugagu ccgugaggac gaaccuccau aa

42